

BEFORE THE ARIZONA CORPORATION COMMISSION

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3	Chairman GARY PIERCE Commissioner	Arizona Corporation Commission DOCKETED
4	PAUL NEWMAN Commissioner	APR 1 4 2010
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IN THE MATTER OF THE APPLICATION OF TUCSON ELECTRIC POWER COMPANY FOR APPROVAL OF ITS RENEWABLE ENERGY STANDARD AND TARIFF IMPLEMENTATION PLAN -

DOCKET NO. E-01933A-09-0340 DECISION NO. ____**71640 ORDER**

Open Meeting March 31 and April 1, 2010 Phoenix, Arizona

CONTRACTS AND PROJECTS

BY THE COMMISSION:

FINDINGS OF FACT

- Tucson Electric Power Company ("TEP" or "Company") is engaged in providing 1. electric service within portions of Arizona, pursuant to authority granted by the Arizona Corporation Commission.
- 2. On July 1, 2009, TEP filed for Commission approval of its 2010 Renewable Energy Standard and Tariff ("REST") Implementation Plan. As part of its application, TEP sought Commission approval of a number of purchased power contracts and renewable energy projects.
- 3. In Decision No. 71465 (January 26, 2010), the Commission approved an amended REST Implementation Plan, but did not act on TEP's request for pre-approval of a number of contracts and projects.
- TEP's July 1, 2009 filing "requests that the Commission approve such contracts and the associated stream of payments over the lifetime of such contracts." In TEP's September 18, 2009 supplemental filing, the Company states it is requesting "approval to use REST funds for the

 following items:" and then lists a number of projects and contracts. Neither filing provides a comprehensive explanation of exactly what sort of approval TEP is seeking. It would seem that TEP is seeking approval of both the contracts in general and specifically the financial commitments TEP is making in each contract.

- 5. Staff is cognizant of TEP's interest in financial certainty regarding REST-related contracts and projects. TEP will be committing significant financial resources to fund REST-related projects. However, blanket approval of such contracts and projects would commit TEP customers to paying for such projects without recourse for many years and could limit the Commission's ability to review all aspects of whether such contracts and projects were prudent in all aspects in the future. Staff does not believe such full-blown approval is warranted at this time.
- 6. However, Staff believes that an approach similar to what the Commission did with the Arizona Public Service Company ("APS") contract for concentrating solar power with the Solana facility is worth consideration. In Decision No. 70531 (September 30, 2008), the Commission provided limited approval of the APS' contract with the Solana facility. Such approval included findings that the Solana PPA was an appropriate component of APS' energy portfolio and compatible with the APS implementation plan, would meet certain REST requirements, and consideration that imprudency would not result simply due to the PPA being more expensive than conventional generation. The order on the Solana PPA specifically did not address the prudence of the PPA, its ratemaking treatment, or approval of the PPA.
- 7. Another request TEP made in this proceeding was for a faster approval process for contracts and projects. While the Commission denied that request in Decision No. 71465, to the extent the Commission were to grant approvals similar to what was done with the Solana project, such proceedings would generally take place more quickly than the more involved process likely to be associated with any form of complete pre-approval. So, while the process being discussed here is less than TEP likely desires, it could nonetheless be helpful to the Company.
- 8. The REST rules, contained in Title 14, Chapter 2, Article 18 of the Arizona Administrative Code ("A.A.C.") require Affected Utilities, including TEP, to provide a percentage of its total retail kilowatt-hours ("kWh) from renewable energy resources. The percentage

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increases from 1.25 percent in 2006 to 15 percent in 2025, gradually ramping up in intervening years. The current requirement is 2.5 percent for 2010, increasing in the following years.

- 9. Section R14-2-1802 defines Eligible Renewable Energy Resources ("ERERs"). Staff's analysis includes a description of each contract and project under consideration, and evaluates whether each contract and project is an appropriate part of TEP's energy portfolio and is compatible with TEP's implementation plan and meets the applicable REST requirements.
- 10. TEP is seeking approval of purchased power agreements including agreements with a 5 megawatt ("MW") concentrated solar power project with thermal salt storage, a 20 MW single axis photovoltaic array, and a 1.5 MW landfill gas project. TEP is also seeking approval of individual projects including a biodiesel pilot project, a 1.6 MW single axis solar tracker at the Tucson Airport, and a 1.8 MW expansion of the photovoltaic facility at Springerville.

Project Descriptions

11. This section of the document provides a description of the projects for which TEP is seeking approval. This section also provides Staff's perspective on how these resources correspond with the REST Rules requirements.

Purchased Power Agreement with Renewable Fuel, LLC

12. This agreement was entered into on September 1, 2009 by TEP and Renewable Fuel, LLC. Bell Independent Power Corp would be the operator of the facility. The effective date is the later of the Agreement Date of September 1, 2009 or upon ACC approval. The Regulatory Approval provision of the agreement conditions it on, among other things, Commission approval of recovery by TEP for ratemaking purposes of the costs incurred by TEP. The agreement has a 20-year period, commencing on the effective date. The facility would be a 5 MW nominal net capacity concentrated solar plant with thermal storage capable of a storage period of three to four hours. Storage would take place via a single-tank thermal salt storage facility known as a Bell Energy Storage Technology system. The planned operational date would be no later than 24 months after the date of approval by the ACC. The facility would be located on South Rita Road

in Tucson, Arizona. The cost per MWh to be paid by TEP was provided to Staff pursuant to a confidentiality agreement. The guaranteed generation from this facility would be 11,500 MWh per contract year.

13. Staff believes that this resource falls within the definition of Solar Electric Resources as defined in R14-2-1802.A.10.

Purchased Power Agreement with FRV Tucson Solar, LLC

This agreement was entered into on September 1, 2009 by TEP and FRV Tucson Solar, LLC. The effective date is upon ACC approval or as otherwise agreed between the parties. The Regulatory Approval provision of the agreement conditions it on, among other things, approval of the agreement by the ACC within three hundred sixty-five days of the execution date. The agreement has a 20-year period, commencing on the commercial operation date. The facility would consist of 20 MW of single-axis photovoltaic panels. This would consist of 100,000 200-watt polycrystalline photovoltaic modules. The planned operational date would be the later of 18 months after the date of approval by the ACC or December 31, 2011. This facility would be located in the town of Avra Valley, northwest of Tucson, on land where the City of Tucson owns the water rights. The cost per MWh to be paid by TEP was provided to Staff pursuant to a confidentiality agreement. The delivered power during the first contract year is expected to be 57,071 MWh, with a reduction of 0.75 percent each year for the remainder of the contract, with a requirement that the seller provide at least 70 percent of the expected delivered power starting in the second contract year.

14. Staff believes that this resource falls within the definition of Solar Electric Resources as defined in R14-2-1802.A.10.

Purchased Power Agreement with Phoenix Gas Producers, LLC

15. This agreement was entered into on September 4, 2009, by TEP and Phoenix Gas Producers, LLC. The effective date is the date the agreement was entered into, September 4, 2009. This agreement does not have a Regulatory Approval provision. The agreement lasts for 15 years from the commercial operation date, which must be within three years of the effective date of the agreement, or September 4, 2012. The project is expected to initially be between 1.6 and 2.4 MW

of generation fueled by landfill gas. The startup time is dependent on county processes. The facility would be located at the Tangerine Landfill, north of Tucson. The cost per MWh to be paid by TEP was provided to Staff pursuant to a confidentiality agreement. The annual estimated generation is between 11,700 and 19,000 MWh per contract year. This resource could potentially ramp up further in the future.

16. Staff believes that this resource falls within the definition of Landfill Gas Generator as defined in R14-2-1802.A.8.

Biodiesel Pilot Project

- TEP purchases 1 million gallons of B99.9 percent off road biodiesel product. TEP would take this biodiesel and burn it in its steam unit at its Sundt Generation Facility in Tucson. TEP's obligation to purchase further biodiesel product is conditioned on TEP's ability to successfully burn the first 50,000 gallons that are delivered. Under the contract provided to Staff, deliveries of 250,000 gallons per month were scheduled for the months from September 2009 through December 2009. The cost per gallon was provided to Staff pursuant to a confidentiality agreement. The biodiesel product originates from waste grease created in cooking animal products. TEP has reported to Staff that a total of approximately 600,000 gallons was delivered to TEP in late 2009, with the supplier unable to make further deliveries. The remaining approximately 400,000 gallons to be delivered was cancelled by mutual agreement between the parties. No further deliveries are expected at this time.
- 18. This resource contains a very small amount of diesel in addition to the biofuel. Staff believes that only the biofuel portion of this resource should be counted under the REST rules. TEP has indicated to Staff that the supplier verifies the actual percentage of biofuel contained in this resource.
- 19. Staff believes that the biofuel portion of this resource falls within the definition of a Biogas Electricity Generator as defined in R14-2-1802.A.1. Staff has recommended that only the biofuel portion of this resource be counted under the REST rules and that TEP provide

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documentation of the portion of this resource that is biofuel in filings where it claims this resource under the REST rules.

Springerville Photovoltaic Expansion

- 20. In this proceeding, TEP has proposed two expansions of the Company's photovoltaic system at the Springerville Generating Station. Currently, TEP has approximately 4.6 MW of photovoltaic generation at the Springerville facility. One part of TEP's proposal includes the installation of four blocks of thin film modules providing 1 MW at a cost of \$4 million. Another portion of the project also includes the installation of six blocks of crystalline panels providing 0.81 MW at a cost of \$3.3 million. TEP has indicated that these buildouts of the Springerville system could be accomplished relatively quickly, probably by the end of 2010.
- 21. Staff believes that this resource falls within the definition of Solar Electric Resources as defined in R14-2-1802.A.10.

Tucson Airport Single Axis Solar Tracker

22. This project is a 1.6 MW single-axis solar tracker that was planned to be part of a wider project called the TEP Storage Project. The 1.6 MW single-axis tracker would be located at the Tucson International Airport and would be designed and constructed by SOLON Corporation. The project would use 350 or 375 watt photovoltaic panels, with 384 modules per array, with 11 or 12 arrays used depending on the wattage of the panels used. The cost of the single-axis tracker would be approximately \$6.7 million. TEP indicated in this proceeding that it was seeking American Recovery and Reinvestment Act ("ARRA") stimulus funding for the TEP Storage Project in conjunction with partners including the Arizona Institute for Solar Energy, Solon, Raytheon, and the Tucson Airport Authority. TEP indicated that it would proceed with the singleaxis tracker regardless of whether it receives ARRA funding. The TEP Storage project would involve a variety of technologies including smart grid and microgrid technologies, a demand-side management component, and a number of storage technologies, including batteries, supercapacitors, above and below ground compressed air, and others. TEP has recently notified Staff that it did not receive ARRA funding for the storage portion of this project, so the project would be a stand-alone single-axis tracker at this time. TEP may attempt to pursue the storage project

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sometime in the future. TEP has indicated to Staff that the single-axis tracker project could be constructed under a very short time frame, probably by the end of 2010.

- 23. Staff believes that this resource falls within the definition of Solar Electric Resources as defined in R14-2-1802, A.10.
- In summary, Staff believes all of the above contracts and projects, with the 24. exception of a small amount of diesel fuel used with the biofuel project, are reasonable means for TEP to achieve its REST targets and to comply with its long-term REST requirements. Specifically, Staff believes that all of the above contracts and projects, with the exception of a small amount of diesel fuel used in the biofuel project, fall within the definitions contained in R14-2-1802 of Eligible Renewable Energy Resources. Staff further believes that these contracts and projects are compatible with TEP's 2010 REST implementation plan approved by the Commission in Decision No. 71465 (January 26, 2010). Staff's recommendations do not include approval of the projects or their costs or prudency.

Staff Recommendations

- 25. Staff has recommended that the Commission make the following findings regarding the contracts and projects addressed in this proceeding:
 - The contracts and projects are an appropriate component of TEP's energy portfolio and are compatible with TEP's 2010 implementation plan as approved by the Commission in Decision No. 71465.
 - The contracts and projects, with the exception of the diesel fuel in the biofuel project, meet the requirements for Eligible Renewable Energy Resources, pursuant to R14-2-1802.
 - In any subsequent inquiry into the prudence of these contracts and projects, the expense of renewable energy purchased resulting from these contracts and projects should not be deemed imprudent solely because the expense is greater than for conventional generation.
 - This Decision is not intended to address the prudence of the contracts and projects or their ratemaking treatment.
 - This Decision does not include approval of the contracts and projects, beyond the findings contained herein.

CONCLUSIONS OF LAW

1. TEP is an Arizona public service corporation within the meaning of Article XV, Section 2, of the Arizona Constitution.

2. The Commission has jurisdiction over TEP and over the subject matter of the application.

3. The Commission, having reviewed the application and Staff's Memorandum dated March 16, 2010, concludes that it is in the public interest to make the findings contained in Finding of Fact No. 26, as discussed herein.

ORDER

IT IS THEREFORE ORDERED that the contracts and projects are an appropriate component of Tucson Electric Power Company's energy portfolio and are compatible with Tucson Electric Power Company's 2010 implementation plan as approved by the Commission in Decision

No. 71465.

IT IS FURTHER ORDERED that the contracts and projects, with the exception of the diesel fuel in the biofuel project, meet the requirements for Eligible Renewable Energy Resources, pursuant to R14-2-1802.

IT IS FURTHER ORDERED that in any subsequent inquiry into the prudence of these contracts and projects, the expense of renewable energy purchased resulting from these contracts and projects should not be deemed imprudent solely because the expense is greater than for conventional generation.

IT IS FURTHER ORDERED that this Decision is not intended to address the prudence of the contracts and projects or their ratemaking treatment.

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Decision No. __**71640**

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Docket No. E-01933A-09-0340

IT IS FURTHER ORDERED that this Decision does not include approval of the contracts and projects, beyond the findings contained herein. IT IS FURTHER ORDERED that this Decision shall become effective immediately. BY THE ORDER OF THE ARIZONA CORPORATION COMMISSION IN WITNESS WHEREOF, I, ERNEST G. JOHN'SQN. Executive Director of the Arizona Corporation Commission, have hereunto, set my hand and caused the official seal of this Commission to be affixed at the Capitol, in the City of Phoenix, this 14th day of April , 2010. EXECUTIVE DIRECTOR DISSENT: DISSENT: SMO:RGG:lhm\JFW

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